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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,798	09/942,798 08/31/2001		Kazuyuki Matsuoka	0425-0846P	9781
2292	7590 03/03/2004			EXAMINER	
		LASCH & BIRG	FELTON, AILEEN BAKER		
PO BOX 747 FALLS CHURCH, VA 22040-0747				ART UNIT	PAPER NUMBER
	,			3641	_

Please find below and/or attached an Office communication concerning this application or proceeding.

———	Applicati n No.	Applicant(s)	
_	09/942,798	MATSUOKA E	T AL.
Office Action Summary	Examiner	Art Unit	
•	Aileen B Felton	3641	1441
The MAILING DATE of this communicate Period for Reply	ati n appears on the cover sheet w	ith the correspondence	address
A SHORTENED STATUTORY PERIOD FOR	REPLY IS SET TO EXPIRE 2 N	AONTH(S) EROM	
THE MAILING DATE OF THIS COMMUNICATION OF THIS COMMUNICATION OF THIS COMMUNICATION OF THIS COMMUNICATION OF THE PROPERTY OF THE MAILING DATE O	ATION. 37 CFR 1.136(a). In no event, however, may a ication. days, a reply within the statutory minimum of thi onry period will apply and will expire SIX (6) MO I, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered ti NTHS from the mailing date of thi BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed	on <u>02 <i>February</i> 2004</u> .		
2a) This action is FINAL . 2b)⊠ This action is non-final.		
3) Since this application is in condition for	r allowance except for formal mat	ters, prosecution as to	the merits is
closed in accordance with the practice	under Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-3,9-17,24-29 and 32</u> is/are	pending in the application.		
4a) Of the above claim(s) <u>14,16,17,27</u>	and 28 is/are withdrawn from con	sideration.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3,9-13,15,24-26,29 and 32</u>	is/are rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	on and/or election requirement.		
Application Papers			
9) The specification is objected to by the I	Examiner.		
10) The drawing(s) filed on is/are: a	a) accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection	on to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a)).
Replacement drawing sheet(s) including the	· · · · · · · · · · · · · · · · · · ·	• • • •	• •
11)☐ The oath or declaration is objected to b	by the Examiner. Note the attache	d Office Action or form	PTO-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for	r foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
 Certified copies of the priority do 	ocuments have been received.		
	ocuments have been received in A	• •	
·	the priority documents have been	n received in this Nation	nal Stage
application from the Internationa	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action to	ior a list of the certified copies no	received.	
Attachment(s)	,, –		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-892) 		Summary (PTO-413) (s)/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date		Informal Patent Application (F	PTO-152)

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of species of copper oxide in Paper No. 17 is acknowledged. The traversal is on the ground(s) that the species are not distinct. This is not found persuasive because applicant has not submitted evidence or identified such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 14, 16, 17, 27, and 28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No's 7 and 17.

Priority

Should applicant desire to obtain the benefit of foreign priority under 35
 U.S.C. 119(a)-(d), a translation of the foreign application should be submitted under 37
 CFR 1.55 in reply to this action.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-3, 9-12, 15, 24-26, 29, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khandhadia et al(5,514,230) in view of Castagner et al (5,160,163) and Takase et al(4,572,178).

Khandhadia et al discloses a gas generating composition for use in an air bag which comprises 22-50 % of a nitrogen containing fuel such as 5-AT, 30-66 % of an oxidizer such as strontium nitrate, and 5-15 % of a catalyst which promotes conversion of CO to CO₂ and can include transition metal oxides (i.e. manganes and copper). Manganese and copper oxides also act as a decomposition promoter. There is no disclosure of surface area or mixtures of oxides as a catalyst.

Castagner et al teaches the use of a catalyst such as Hopcalite® that is inside the inflatable bag of an air bag device which acts to absorb or dissociate the CO produced upon activation of the air bag composition (co. 4, lines 30-40).

Takase et al teaches that Hopcalite® is mixture of 22 % copper oxide and 78 % manganese oxide with a specific surface area of 217 m²/g (col. 5, lines 1-5). The Hopcalite® is used in an emergency mask to remove CO.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the teaching of the catalyst of Castagner mixed with the composition of Khandhadia since both are utilizing transition metal containing catalysts to remove CO that is produced by the gas generating composition in an air bag system. Takase et al merely teaches the specific chemical makeup of Hopcalite®.

6. Claims 1-3, 9-13, 15, 24-26, 29, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida(5,883,330) in view of Castagner et al (5,160,163) and Takase et al(4,572,178).

Yoshida discloses a gas generating composition for use in an air bag which comprises a nitrogen containing fuel such as dicyandiamide (col. 4, line 4), an oxidizer such as strontium nitrate(col. 4, line 41), and 1-20 % of an oxide based catalyst to reduce the CO (see col. 5, linbes 6-40 and examples). The composition can also include a decomposition promoter (col. 5, lines 40-55). There is no disclosure of surface area or mixtures of oxides as a catalyst

Castagner et al teaches the use of a catalyst such as Hopcalite® that is inside the inflatable bag of an air bag device which acts to absorb or dissociate the CO produced upon activation of the air bag composition (co. 4, lines 30-40).

Takase et al teaches that Hopcalite® is mixture of 22 % copper oxide and 78 % manganese oxide with a specific surface area of 217 m²/g (col. 5, lines 1-5). The Hopcalite® is used in an emergency mask to remove CO.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the teaching of the catalyst of Castagner mixed with the composition of Yoahida since both are utilizing transition metal containing catalysts to remove CO that is produced by the gas generating composition in an air bag system.

Takase et al merely teaches the specific chemical makeup of Hopcalite®.

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Conclusion

7. The prior art that was previously made of record and not relied upon is considered pertinent to applicant's disclosure.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen Felton whose telephone number is (703) 306-5751. The examiner can normally be reached on Monday through Friday from 6:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306-4198.

The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7687. The fax number for submissions before a final action is (703) 872-9326, for after final submissions is (703) 872-9327, and customer service is (703) 872-9325.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Ween B. Telton